

line 12, after "72," insert --and--.

IN THE CLAIMS

Please add claims 20 through 36, as follows:

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20. (NEW) A data processor apparatus for common use in a DVD (Digital Video Disk)/CD (Compact Disk) player using discrimination information provided according to a DVD or a CD, comprising:

a signal pre-processor generating a clock from a pulse stream read from one of the DVD and the CD and performing demodulation of the pulse stream according to the discrimination information;

a memory unit storing the demodulated pulse stream processed by the signal pre-processor as data in a corresponding format according to the discrimination information; and

a data processor and converter processing the data stored in the memory unit.

21. (NEW) The data processor apparatus as claimed in claim 20, wherein the data processor and converter audio-converts or data-converts the processed data according to the discrimination information.

22. (NEW) The data processor apparatus as claimed in claim 20, wherein the data processor and converter comprises an error corrector error-correcting the data stored in the memory unit according to the discrimination information using a preset error correcting method.

23. (NEW) The data processor apparatus as claimed in claim 22, wherein the preset error correcting method of the error corrector depends on a code length and a correcting range according to the discrimination information.

24. (NEW) The data processor apparatus as claimed in claim 20, wherein the memory unit comprises:

- a data storage memory; and
- a memory controller controlling the memory to store the data in the corresponding format according to the discrimination information.

SubD6 25. (NEW) A data processor apparatus for sharing a memory according to discrimination information which depends on a type of an information storage medium which stores data, comprising:

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- a signal pre-processor performing demodulation of the data according to the discrimination information;
 - a memory unit storing the demodulated data processed by the signal pre-processor in a corresponding format according to the discrimination information; and
 - a data processor and converter processing the data stored in the memory unit.

26. (NEW) The data processor apparatus as claimed in claim 25, wherein the signal pre-processor generates a clock from a pulse stream read from the information storage medium.

27. (NEW) The data processor apparatus as claimed in claim 25, wherein the data processor and converter audio-converts or data-converts the processed data according to the discrimination information.

28. (NEW) The data processor apparatus as claimed in claim 25, wherein the data processor and converter comprises an error corrector error-correcting the data stored in the memory unit according to the discrimination information using a preset error correcting method.

29. (NEW) The data processor apparatus as claimed in claims 28, wherein the preset error correcting method of the error corrector depends on a code length and a correcting range according to the discrimination information.

30. (NEW) The data processor apparatus as claimed in claim 25, wherein the memory unit comprises:

a data storage memory; and

a memory controller controlling the memory to store the data in the corresponding format according to the discrimination information.

31. (NEW) An optical disk drive, comprising:

a controller determining a type of a disk through a signal read from the disk and outputting discrimination information according to the disk type;

a signal pre-processor performing demodulation of data from the disk according to the discrimination information;

a memory unit storing the demodulated data processed by the signal pre-processor in a corresponding format according to the discrimination information;

a data processor and converter processing the data stored in the memory unit.

32. (NEW) The optical disk drive as claimed in claim 31, wherein the signal pre-processor generates a clock from a pulse stream read from the disk.

33. (NEW) The optical disk drive as claimed in claim 31, wherein the data processor and converter audio-converts or data-converts the processed data according to the discrimination information.

34. (NEW) The optical disk drive as claimed in claim 31, wherein the data processor and converter comprises an error corrector error-correcting the data stored in the